

WHAT IS CLAIMED IS:

1. A packet communication system comprising:
 a plurality of terminals, and
 transferring means for transferring multicast packets written with the
 same information to said plurality of terminals;

5 wherein said transferring means comprises:

a broadcast group managing router provided with: holding means for
 holding calculation type addresses having bits "1" corresponding to those of
 said plurality of terminals to which a multicast packet is to be transferred,
 respectively; and assigning/sending means for assigning a pertinent calculation
 10 type address to a multicast packet and sends out the multicast packet; and

at least one calculation type address calculating router provided with:
 holding means for holding directional route masks having bits "1"
 corresponding to those directional routes into which a multicast packet is to be
 transferred, respectively; and sending means for sending out a multicast packet
 15 to those directional routes which are given with logical products of "1" by the
 combination of each directional route mask and said assigned calculation type
 address; and

wherein each of said plurality of terminals comprises:

holding means for holding a terminal mask having a bit "1"
 20 corresponding to the terminal itself; and

multicast packet receiving means for receiving a multicast packet
 which is given with a logical product of "1" by the combination of said terminal
 mask and said assigned calculation type address.

~~2.~~ A mobile communication system comprising:

a mobile terminal;

encapsulating means for encapsulating a uni-cast packet destined to said mobile terminal into a multicast packet destined to said plurality of broadcast receiving routers; and

wherein said transferring means comprises:

at least one calculation type address calculating router provided with:
holding means for holding directional route masks having bits "1"
corresponding to those directional routes into which a multicast packet is to be
transferred, respectively; and sending means for sending out a multicast packet
20 to those directional routes which are given with logical products of "1" by the
combination of each directional route mask and said assigned calculation type
address; and

holding means for holding a terminal mask having a bit "1"
25 corresponding to the terminal itself;

de-capsulating means for de-capsulating the received multicast packet
30 into a uni-cast packet destined to said mobile terminal.

- at least one calculation type address having bits "1" corresponding to destinations to which a multicast packet is to be transferred;

- at least one terminal mask having a bit "1" corresponding to that destination which is to receive the multicast packet.